

# SHUANG WU

**Portfolio** <https://shuang-shawn.github.io>

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## TECH STACK

**Languages:** Python, C#, C++, Java, JavaScript, C, Swift, SQL, Kotlin, HTML

**Framework & Tools:** React, Node, Express, .NET Core, REST API, Docker, MongoDB, DynamoDB, PostgreSQL, Git, Linux, Unix, AWS EC2, AWS Lambda, API Gateway, OOP, Agile, Docker

## EXPERIENCE

### Co-op Software Tester | HealthTech Connex Inc. Surrey | May 2022 – Sept 2023

- Developed and executed manual and automated unit tests to ensure the quality and functionality of desktop applications for medical devices.
- Identified, documented, and reported software bugs, resolved issues with development teams.
- Contributed to testing a neurotech product that generated \$1 million in three months and became essential in athletic clinic operations.

### Full Stack Developer | [Squamish Real Estate](#) Vancouver | Sept 2023 – July 2024

- Migrated and redesigned commercial website from Django to React, ensuring a modern interface.
- Implemented AWS API Gateway endpoints for data analysis, providing valuable insights to users.
- Shifted majority of the data infrastructure to AWS cloud for scalability of the website.

## PROJECTS

### ChronoSystems | AWS Timesheet Engine Sept 2023 – Jan 2024

- Managed a team of 10 developers to create a serverless cloud platform for businesses managing their employee timesheets and pay stubs using a microservice architecture.
- Architected AWS cloud services (API Gateway, Lambda, Step Functions) for backend infrastructure.
- Weaved together a complex network of APIs from microservices, written by different developers, to work together on a single seamless platform.

### Personal Shell | Personal Project Sept 2023 - Dec 2023

- Designed an interactive shell for Unix using C with customized shell scripts for various tasks.
- Implemented process management, filesystem management, and memory allocation management.
- Implemented background execution, allowing users to run processes simultaneously.

### AI Summarizer | Group Project Sept 2023 - Dec 2023

- Collaborated in a 4-person team, Designed and implemented a hosted machine learning model to provide sentiment analysis and text summarization capabilities using Python.
- Developed middleware API and SQL database to manage user categories and monitor API usage.
- Defined database schema and ensured efficient storage and retrieval of necessary data.

### SmoothTalk | NwHacks 2022 Dec 2021

- Developed within 24 hours in a team of 4. SmoothTalk is a web application for users to improve public speaking skills by speech-to-text analysis and real time detection for filler words.
- Utilized node.js and the WebSocket protocol to continuously stream audio to Amazon Transcribe.
- Responsible for back-end implementation, UX/UI, and user testing.

## EDUCATION

### Bachelor of Science in Applied Computer Science (BCIT) Sept 2021 – Present

- Game Development / Cloud Computing cGPA: 91%

### Bachelor of Arts in Interdisciplinary Studies (UBC)

Sept 2015 – May 2020

- Economics / Asian Studies